The Tribune Radio—News of the Air Routes

Conducted by JACK BINNS



Automatic SOS Can Be Sent From Ships

British Engineers Have Produced Three Types of Automatic Apparatus for Distress Calls

Convention May Approve

Apparatus Would Expedite Rescue Work and Save Many Lives Off Coasts

Radio engineers in Great Britain are hich will send out and receive dis tress signals from ships at sea in such should not happen to be in his cabin. The problem is a very important one to the owners of small steamships, who cannot afford to fully comply with wery regulation of the but enational Radio Convention regarding wireless

The war prevented a great many necessary changes in the international destroyer made, as it was impossible r the technical representatives to on foot now to hold one this

in the meantime, however, active work has progressed in the development of an automatic distress signal, and three such systems have already been produced, two by the Marconi commany and one by the Radio Communication Commany

Automatic Sets Produced

ments in transmission, is now broad content there isn't the eligible columner of small content that a large number of small content in the statistic mere adily and has a location for the law compelling the installation of which it is charged in ratio elegated in the case of the law compelling the installation of which it is charged in ratio case of the law compelling the installation of which will undoubtedly the that a convention is held in the word of an intention of wices apparatus. The present distress cult, SO, was sentently in the winter ments a round the coasts, where the convergence is a state of the law compelling the installation of which will undoubtedly the that a convention is held in the winter ments around the coasts. As a state of the law compelling the installation of which is charged in ratio case of the compelling the installation of which will be added that he winter ments around the coasts.

The present distress cult, SO, was sentently in the winter ments and the one which would quickly attract attention of wices operators. For oral reception with telephone of the law compelling the installation of which is the case of the compelling the installation of which is the case of the compelling the installation of which will be added that he winter is the case of the compelling the content of the case of the compelling the compe

In the event that a convention is held this year, and the automatic apparatus is adopted, such apparatus can be installed on every lighthouse or lightship in conjunction with the radio beacon signals which will be rapidly installed throughout the world.

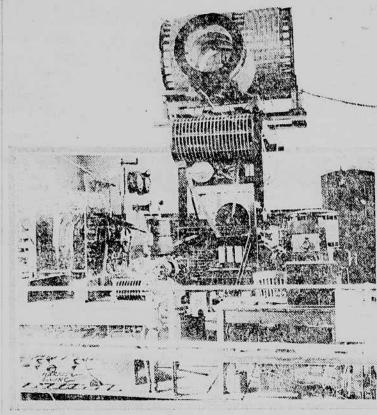
The installation of such instruments on a lighthouse or lightship would mean that the crew could immediately get a bearing upon the ship sending out the call, and by intercommunication with each other could determine its exact position by means of triangulation with their respective bearing lines. This position would be accurate, and it would greatly facilitate rescue work, as revenue cutters or other craft could be sent to the position immediately. The valuable thing about the system would be lat none of the lighthouse or lightship crew need have a knowledge of the telegraphic code. They would, however, have to have a knowledge of the

N. G. to Give Radio Concert

The first of the National Guard units in New York City to stage a radio con-cert in conjunction with an exhibition cert in conjunction with an exhibition drill and dance will be Battery B, 105th Field Artillery, at the armory, Clermont and Myrtle avenues, Brocklyn, on the evening of April 20, Captain James H. McSweeney, commanding the battery, has arranged for the installation of powerful amplifiers in the big drill hall and the broadcasting stations at Newark will be in communication.

Battery B has completed an interesting program of mounted events, in ad-

ing program of mounted events in addition to the radio features. There will be an indoor polo match between teams of the Unity Riding Club of Brooklyn and the officers of the 1st Battalion of the 105th Field Artillery. A mounted basketball game between teams from Batteries A and B of the Brooklyn artillery unit and a flying and firing platon drill by Battery B, in command of Lieutenet I. H. Andrew. The bend Liquitenant J. H. Andrews. The band of the 105th F. A., under the direction of Lieutenant Elmer Ressigue, will play a concert, and there will be dancGigantic Oscillation Transformer at Arlington



The huge coils at the top of the picture are the primary and secondary inductances in the radio circuits of the great trans-Atlantic wireless station located at Arlington, Va., near Washington. This is the station which sends out the official time of the nation every day at noon and 10 o'clock in the evening. The time signals are taken by all the broadcasting stations throughout the country on the 2,500-meter wave, and then retransmitted on the 360-meter wave, so that radio enthusiasts can check their clocks each day

England Awakening to Charms Of the Radiophone at Last

Aviatrice Has "Extraordinary Permit" From British Authorities to Demonstrate Ethereal Music in Effort to Get More Liberal Rules

By Warre B. Wells From the Trabure's Foregreen Baseds and the accordance with a preserranged glan, but unlike the former, does not require an automatic range, and the treatment of the Radio Communication of the Radio Communicati

to the shipowner is this: 'When will an automatic apparatus for registering the signal of distress be approved by the Board of Trade and the Postmaster General?' The perfection of such a device, however, will be of great value in navigation because there first the slightest doubt that a large number of small vessels which do not now come under the laws connecling the installation of quotations figure.

REAL SERVICE PLUS COURTESY

Retail Department THIP OWNER \ RADIO SERVICE INC. 80 Washington St., New York

DEALERS Our Plans for Making Radio Re-ceivers of All kinds are the Clear-est to read.

est to read.

Write for our price list. Will offer you an interesting proposition that will increase your sales. S. NEWMAN & CO. Radio Designing and Drafting 161 WASHINGTON ST.

FINEST EUROPEAN RADIO EQUIPMENT Full Sets or Single Instruments

(Garanteed)
The product of the leading European Radio Experts at lowest prices. Write us your requirements.
BLYTHE BROS. CO. (Sole Agents) VICTOR ZORN DEPOT Urban Strasse No. 49 Borlin S. W. 50 Germany



Household Necessity
National Radio Broadcast by
Bell System
The Radio Oracle (Questions
and Answers)
Results of the \$300 Radio
Prize Contest
Radio Controlled House in Paris
A Simple Radiophone Receiver
Radio Set in a Match Box
"W Y D" to Have New Station
Radio for the Beginner
Simple Receiving Set
Radio Lond-Talkers
Radio Broadcasting
First Authentic List First Authentic List of Radiophone

Broadcasting Stations All in the April issue of Ccience and Invention

Now On All News STANDS

FLASH RADIO **OUTFITS**, \$10.00 RADIO BOXES VARIOMETER BLOCKS B. E. JARVIS, Inc. NEWARK, N. J. 113-115 MECHANIC ST., Newark, N. J

USE PILOT B BATTERIES be tapped at any voltage from

PILOT ELECTRIC MFG. CO. Dept. D. 115 South Fifth Street, Brooklyn, N. Y.

Can't Operate Buzzer Set For Important

Radio Tests Simultaneous Telephone and Telegraph Signals To Be Sent and Received by Radio on Same Aerial

Engineers Are Confident

America Sails

Public Telephone Service With Ships May Be Inaugurated Next Year

ica, which left Hoboken at noon yes terday for Bremen, Germany. The ex periments are a continuation of the two-way telephone conversation tests shore stations at Deal Beach and Ava lon, N. J., during the last three months During the present voyage the ex perimenters on board the America will attempt to conduct a two-way voice communication with the shore stations while the wireless telegraph operators their regular wireless telegraph busitheir regular wireless telegraph business. Both systems of communication will proceed simultaneously and each will use the same aerial on the ship. The manner in which this will be accomplished is by obtaining a multiple-tuned effect in the antenna and using filters to separate the voice from the telegraph signals. In order to accomplish this the vessel has been equipped with the latest receiving and transmitting equipment developed by the radio engineers.

Operators to Use Ordinary Wave For telegraphic purposes the radio operators about the America will use the regular wave length allotted to ships under the International Radio Convention and will communicate with the various shore stations assigned for that purpose, according to her position during the voyage. The engineers from the Bell Labora-

industry, or of general public interest. In reply the Postmaster General said that the whole question was being restricted to the Imperial Communications Committee, so that the views of the departments concerned might be obtained as early as possible. He added that he was himself entirely sympathetic with the idea.

Legion Commander Talks

DETROIT, April 15.—National Commander Hanford MacNider of the American Legion sent an Easter message to all members from the broad casting station of "The Detroit News" this evening. It was the first time the Legion commander had used this means to speak to ex-service men and women.



ome in any hour of the day—on the our—for a free demonstration of the implest, easiest operated, most effi-ient of all radio telephones—

Westinghouse

omplicated wiring—a child can te it. Encased in a handsome We carry a complete line of parts.

N. Y. Wireless Telephone Co. 82 Flatbush Ave., Brooklyn Phone: Sterling 6319 N. J. Wireless Telephone Co. Broad Street, Newark, N. J. Phone: Market 3265.

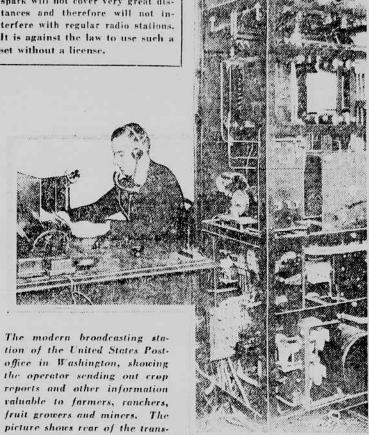
> Radio Supplies and Equipment

for Immediate Delivery from stock

Wholesale Dealers Supplied Bronx Radio

Equipment Co. 687 Courtlandt Ave., at 154th St. Melrose 1613 Radio Call 2-BXA

Some confusion seems to exist as to whether a radio fan can use a transmitting set, consisting of a buzzer, without obtaining a license from the Federal authorities. It is due to argument that the feeble oscillations produced by a buzzer spark will not cover very great disset without a license.



Last Link Will Soon Be Forged In World-Wide Radio Chain It is hoped that one or two night flights will be possible, so that the range of reception will be greatly increased over the normal daylight range.

stabled a series of complete instal-lations ranging in price from \$15.00 to \$273.00 and more. These outfits are complete— every item of accessory equip-ment is included to put them into actual operation.



using in Radio. We enery a complete line of RELIABLE SETS at various prices, or can sell you all the necessary PARTS for a complete RECEIVING SET and show you how to assemble them to give you results.

Hoyt ELECTRIC 686 Lexington Ave Between 56th-57th Sts. Tel. Plaza 5866-7

Devoted to the practical Science of Wireless Telegraphy & Telephony Radio Institute of America Formerly MARCONI INSTITUTE
New York
Day 'Phone Franklin 6245
Night 'phone Barclay 4794

mitting panel.

rate Ethereal Music in that purpose, accordance of the may, army, and air force authorities.

The engineers from the Bell Laboratories who are conducting the radio-telephone experiments, however, will converse solely with the two New Jerseyn which will not conflict at the other shore stations, using a different wave length, which will not conflict at the other shore stations, using a different wave length, which will not conflict at the other shore stations, using a different wave length, which will not conflict at the other shore stations, using a different wave length, which are only responding to the telegraphic code from the America.

The popular favor into which radio ceived by ocean liners 2,500 and 3,000 miles away.

The Radio Corporation maintains six strides it is making throughout the world since broadcasting was perfected are brought out in the annual report of the Radio Corporation of America to the Radio

modern witeress telephone receiving sets are so designed that you need no previous experience whatever to operate them successfully. The Continental organization has assembled a series of complete installations are received.

CONTINENTAL RADIO AND ELECTRIC CORP. New York's Loading Wireless House



RADIOPHONE
REGUS PAT. OFF.

EVERYMAN, with phones, \$25;
RADIOHOME tube set, \$36; twostep amplifier, \$35; BRANDES, Federal phones, \$8: 100 feet 14 eral phones, \$8; 100 feet 14 copper wire, 45c.; 22½ Volt "B" battery, \$1.10; 6 Volt "A" battery, 60 am-America's Foremost School

Send 15c. for "Radio in Home," or 10c. for complete catalogue. ROONEY CO. 1451 ST. NICHOLAS AVE.
Near 183d Street Open Evenings

Magnet Wire

for Wireless

ROME WIRE CO.

as izvīvēt tar

NEWS ==

Radio's Greatest

Magazine

OVER 175,000 COPIES

AT ALL NEWSSTARDS

25c the Copy

Or Direct By Mail, \$2.50 a Year

nester Publishing Co., 238 Frie. Street, Stor Fork 60y

To supply the demand

25 Cents

ROME, N. Y.

Ask for Rome Wire at your Dealers,

Rome-Wice Ma

N. Y. Office: 50 CHURCH ST.

國人

Single Cotton Covered Double Cotton Covered Copper Antenna Wire

Stranded or Solid

Plain Enamel

Talking to the Farmer | Flying Parson to Preach From Air by Radio

> Lieut. Maynard, of Transcontinental Air Race Fame, to Preach While Piloting for Legion

> Lieutenant Belvin W. Maynard, the flying parson," who made aeronautical "flying parson," who made aeronautical history two years ago in the transcontinental flights, will preach the first sermon ever broadcasted by radiophone from the air this afternoon under the auspices of the American Legion.
>
> Maynard will pilot a five-passenger Fokker monoplane over Hazelhurst Field, L. L. during the demonstration. The plane has been specially equipped with a 50-watt radiophone transmitter, which should be heard under normal conditions over a distance of 150 miles. The flight will start at 3 o'clock this afternoon.
>
> The machine will ascend to an alti-

he delivers the sermon through the mouthpiece attached to his helmet. In this manner the noise of the engine will not in any way interfere with clear reception.

The novel test is being made in conjunction with the drive of the American Legion for \$2,500,000 to build and equip a veterans' mountain camp in the Adirondacks for tubercular patients and other convalescents who were wounded during the war.

The sermon will be broadcasted on

were wounded during the war.

The sermon will be broadcasted on wave-length of 507 meters, which will be within the range of all the short wave receiving sets now being used by radio enthusiasts. Maynard says there will be no collection at this ethereal church service, but be hopes that those who are his congregation will send their contributions to the headquarters of the veteran fund in the Hotel Astor. In addition to the sermon to-day flights will be made during the week by Maynard, and as the plane is capable of carrying four passengers in capable of carrying four passengers in addition to the pilot it will be possible to take up that number of entertainers, who will sing or play over the aeronautical transmitter.



Radio Telephone

Westinghouse

We Carry a Complete Line

20TH EXECUTIVE OFFICES:
565 Fifth Avenue, New York City.
565 Fifth Avenue, New York City.
Suite 710, Strains Building.
BRANCHSS
NEWARK, N. J. BROOKLYN, N. Y.
587 Broad St. 102 Flatbush Ave.
DETROIT, MICH WHITE PLAINS, N. Y.
2511 Woodward Ave. 2.4 Mamaroneck Ave.
NATIONAL DISTRIBUTORS.

Insist on MORSCAN INSULATORS

On sale at all leading Radio and Electric Stores.

Morscan Radio Company 196 Market St., Newark, N. J.

The Dietze Radio Co. Retail Sales Department at A. A. SIPPELS, 41 Market Street. Phone Market 6764. Offices, Mail Order Department

and Wholesale Department, 30-32 Stirling Street, Newark, N. J. Phone Market 7598.

BE PREPARED WHEN LIGHTNING STORMS COME ALONG JACOBUS J.S. W. VACUUM AERIAL PROTECT-ORS Will protect your house and home as well as instruments.

Takes the place of the expensive ground or lightning switch. \$2.00 From your dealer or direct E. JACOBUS, 79 Orange Street, Newark, N. J. Dealers: write for our proposition.

PANELS PARTS

Beautiful finish panels. Black, brown, and mahog-anite. Best insulation for radio, resists warping. Standard Dials 3" and 4", knobs, sockets, bases, etc. Dealers write to American Hard Rubber Co. 11 Mercer St. New York City



New York City Everything ready for delivery, including the new

EVERETT PHONES

Clapp-Eastham Fada Rheostats Crystal Detectors and Bakelite Tubing

Chelsea Dials and Condensers Tuska

ELECTRIC SERVICE ENGINEERING CO. 105 West 47th St. (Bryant 2748)



HOME RADIO HOW TO MAKE AND USE IT

By A. Hyatt Verrill Every step in constructionwith numerous working diagrams,

More than 60 diagrams.

HARPER & BROTHERS

DATENT CO.



DIALS—BAKELITE CABINETS

Beacon Radio & Electric Company, 246 Greenwich St., nr. Park Pt., N. L.

Head Sets 3 DAY SALE SUNBEAM ELEC. CO.

HERALD RADIO CORP. Wholesale & Retail Herald Building

1350 Broadway Room 215 PAPER TUBES WIRELESS LIVERY

BAEHM PAPER CO., INC. LEIN'S RADIO & SHOPS TUBES, 'PHONES, LOUD SPEAKERS; COMPLETE

SETS—ALL PARTS DUWNTOWN-48 Fulton St (m John L UPTOWN-1 W125 th St. NEWYORK

Antenna Wire Radio Equipment Radio Appliance, Inc. Branford Place, NEWARL, N. J

Complete line of Radio Parts and Finished Sets. Headphones, Tubes, Loud Speakers, Etc. VICTORY LABORATORY 63 East 9th St., N. Y. C. Phone Stuyvesant 0757

DOWNTOWN HEADQUARTERS Complete Receiving Sets and ful stock of parts, plans, books, ele-including tubes and headsets. Radio experts at your service

John Jorgensen Company, Inc. 120 Liberty Street, New York One block from Hudson Tunnels.